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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,813	12/30/2003	Juha Marila	915-008.017	9367
	4955 7590 10/15/2009 WARE FRESSOLA VAN DER SLUYS & ADOLPHSON, LLP		EXAMINER	
BRADFORD GREEN, BUILDING 5 755 MAIN STREET, P O BOX 224 MONROE, CT 06468		AUGUSTINE, NICHOLAS		
			ART UNIT	PAPER NUMBER
			2179	
			MAIL DATE	DELIVERY MODE
			10/15/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/749,813	MARILA ET AL.
Office Action Summary	Examiner	Art Unit
	NICHOLAS AUGUSTINE	2179
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 24 or 2a) ☐ This action is FINAL . 2b) ☐ This action is FINAL . 2b) ☐ This action is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-29 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration. or election requirement.	
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed as a composition and accomposition and accomposition is described as a composition with a correct that are considered as a composition of the correct that are considered as a composition of the correct that are considered as a composition of the correct that are considered as a composition of the correct that are considered as a composition of the correct that are considered as a composition of the correct that are considered as a	cepted or b) objected to by the lead rawing(s) be held in abeyance. See ction is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list 	nts have been received. Its have been received in Applicationity documents have been received Bu (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)
2) Notice of Treferences Cited (170-032) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

Application/Control Number: 10/749,813 Page 2

Art Unit: 2179

DETAILED ACTION

A. This action is in response to the following communications: Request for Continued Examination filed 07/24/2009.

B. Claims 1-29 remains pending.

Continued Examination Under 37 CFR 1.114

C. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/24/2009 has been entered.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised

Art Unit: 2179

of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over anticipated Dostie et al. (US Pub 2004/0021691), herein referred to as "Dostie" in view of Yoshiya Kato et al (US Pat. 6,295,052), herein referred to as "Kato".

As to independent claims 1 and 12, Dostie teaches a device (e.g. method, device, etc), for inputting, comprising: a display (fig. 1); and a memory (fig. 1) comprising a first set of characters of a character set (par.138; default view upon system start up is a English character set laid out on a keyboard), said first set of characters comprising at least two characters (par.138 and 198), and a second set of characters of said character set (fig. 3, highlighted characters "TYSD"; par [0080], lines 12-21; is a separate set of characters), said second set of characters comprising at least two characters (fig. 3), wherein the characters in the first set of characters are statistically more likely to be selected in successive order than the characters in the second set of characters independently of user input (par.64-65; par.85; in paragraph 138 it is explained of the English set being displayed with the rapid navigation not turned on (second set/highlighted character set)); wherein said display is configured to selectively display, for selection of which character to input, either the first set of characters or the second set

Application/Control Number: 10/749,813

Art Unit: 2179

of characters (par.64; wherein the characters of the first set are distinguished separately from the second set; distinguishing in a variety of ways such as (1): highlighting/visual attribute and (2) being displayed in a list separate from qwerty graphic keyboard; par.103).

Page 4

Dostie does not specifically teach that upon start up of the interface there is present two separate sets of alphanumeric characters, that only after the user interacts with the interface that two exist; further Dostie does not specifically teach wherein the alphanumeric characters of the first set of characters and the alphanumeric characters of the second set of characters are mutually exclusive. However in the same field of endeavor Kato teaches that upon start up of the interface there is present two separate sets of alphanumeric character (col.27,lines 22-28); wherein the alphanumeric characters of the first set of characters and the alphanumeric characters of the second set of characters are mutually exclusive (col.27, lines 22-28, 40-43; col.28, lines 1-8, 23-46). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Kato into Dostie. Kato is a digital keyboard interface providing the user with a method to efficiently type faster (col.2,lines 4-23). Dostie is also a digital keyboard interface providing the user with a method to efficiently type faster. One of ordinary skill in the art would not have been hard pressed to see the variant option of Kato (showing a distinction between two separate sets of alphanumeric characters (mutually exclusive), that are produced from different files) to be added to Dostie to provide a digital keyboard that allows the user to type faster more efficiently.

As to dependent claims 2, 13 and 22, Dostie teaches the device is adapted to select any desired one of the displayed characters if said desired character exists in the displayed first set of characters (fig. 3).

As to dependent claims 3, 14 and 23, Dostie, it appears that if the desired character is not in the displayed first set, the system would display more of the remaining character for selection (par.64).

As to dependent claims 4, 15 and 24, In light of the rejection set forth in claim 3, user may select any desired one of the displayed characters if said desired character exists in the displayed second set of characters (par.64).

As to dependent claim 5, Dostie teaches the device of claim 1 comprising a character set switch for replacing the currently displayed set of characters with another set of characters (par.80; changing character sets. par.64; changing set of characters on display of graphic keyboard).

As claim to dependents 6, 17 and 25, Dostie does not specifically in detail mention the device is adapted to cluster, on the display for selection, characters within the first set of characters, so that characters that are statistically more likely to be selected in successive order appear closer to each other than characters that are statistically less

likely to be selected in successive order (par.103; shows how characters are arranged in a list which represents set of characters from first set of characters).

As to dependent claims 7, 18 and 26, Dostie teaches the device is adapted to display the characters in the first set of characters on the display in QWERTY-format (fig.3; par.3).

As to dependent claims 8, 19 and 27, Dostie does not specifically in detail teach the device is adapted to display the characters in the first set of characters on the display in alphabetical order (figure 29; list of characters "d,k,n,r,v" are in alphabetical order).

As to dependent claim 9, Dostie further teaches the display is a touch-sensitive display (par [0079], lines 1-6).

As to dependent claims 10 and 16, Dostie further teaches the first set of characters and the second set of characters are based on a specific language used for inputting information (par [0080]).

As to dependent claims 11, 20 and 28, Dostie further teaches the device is embodied as a mobile terminal for a mobile telecommunications system (par [0073], lines 13-20).

As to independent claim 21 (Current Amended), Dostie teaches a computer program product comprising program code stored in a memory (fig. 1, label 16, par [0067], lines

Art Unit: 2179

6-20) for generating a virtual keyboard on a display (par [0064], lines 15-24), when said program code is executed by a processor (fig. 1, labels 12, 26; par [0069], lines 1-7) the program code comprising: for defining a first set of characters of a character set comprising at least two characters (par.138; default keyboard having English language character set); for defining a second set of characters of a character set comprising at least two characters (fig. 3, highlighted characters "TYSD"; par [0080], lines 12-21), wherein the characters of the first set of characters are statistically more likely to be selected in successive order than the characters of the second set of characters independently of user input (par.64-65; par.85; in paragraph 138 it is explained of the English set being displayed with the rapid navigation not turned on (second set/ highlighted character set); program code for displaying for selection of which character to input, the first set of characters only on the display (par.64; wherein the characters of the first set are distinguished separately from the second set; distinguishing in a variety of ways such as (1): highlighting/visual attribute and (2) being displayed in a list separate from gwerty graphic keyboard; par.103).

Dostie does not specifically teach that upon start up of the interface there is present two separate sets of alphanumeric characters, that only after the user interacts with the interface that two exist; further Dostie does not specifically teach wherein the alphanumeric characters of the first set of characters and the alphanumeric characters of the second set of characters are mutually exclusive. However in the same field of endeavor Kato teaches that upon start up of the interface there is present two separate sets of alphanumeric character (col.27,lines 22-28); wherein the alphanumeric

Art Unit: 2179

characters of the first set of characters and the alphanumeric characters of the second set of characters are mutually exclusive (col.27,lines 22-28, 40-43; col.28,lines 1-8, 23-46). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Kato into Dostie. Kato is a digital keyboard interface providing the user with a method to efficiently type faster (col.2,lines 4-23). Dostie is also a digital keyboard interface providing the user with a method to efficiently type faster. One of ordinary skill in the art would not have been hard pressed to see the variant option of Kato to be added to Dostie to provide a digital keyboard that allows the user to type faster more efficiently.

As to independent claim 29, Dostie teaches a device for inputting information (fig. 1), comprising; means for displaying characters (fig. 1); and means for storing a first set of characters (fig. 1), said first set of characters of a character set comprising at least two characters (par.138; default keyboard having English language character set), and a second set of characters of said character set, said second set of characters comprising at least two characters (fig. 3, highlighted characters "TYSD"; par [0080], lines 12-21), wherein the characters in the first set of characters are statistically more likely to be selected in successive order than the characters in the second set of characters independently of user input (par.64-65; par.85; in paragraph 138 it is explained of the English set being displayed with the rapid navigation not turned on (second set/highlighted character set); wherein the display is configured to display, for selection of which character to input, the first set of characters only (par.64).

Application/Control Number: 10/749,813

Art Unit: 2179

Dostie does not specifically teach that upon start up of the interface there is present two separate sets of alphanumeric characters, that only after the user interacts with the interface that two exist; further Dostie does not specifically teach wherein the alphanumeric characters of the first set of characters and the alphanumeric characters of the second set of characters are mutually exclusive. However in the same field of endeavor Kato teaches that upon start up of the interface there is present two separate sets of alphanumeric character (col.27,lines 22-28); wherein the alphanumeric characters of the first set of characters and the alphanumeric characters of the second set of characters are mutually exclusive (col.27, lines 22-28, 40-43; col.28, lines 1-8, 23-46). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Kato into Dostie. Kato is a digital keyboard interface providing the user with a method to efficiently type faster (col.2, lines 4-23). Dostie is also a digital keyboard interface providing the user with a method to efficiently type faster. One of ordinary skill in the art would not have been hard pressed to see the variant option of Kato to be added to Dostie to provide a digital keyboard that allows the user to type faster more efficiently.

Page 9

6. Claims 6, 17 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dostie in view Kato in further view of Pu et al. (US Patent 7,152,213), hereinafter "Pu".

As claim to dependents 6, 17 and 25, Dostie as modified by Kato does not specifically in detail mention the device is adapted to cluster, on the display for selection, characters within the first set of characters, so that characters that are statistically more likely to be selected in successive order appear closer to each other than characters that are statistically less likely to be selected in successive order;

However, in the same field of virtual keyboard input (Pu: col. 10, lines 55-57), Pu teaches the device is adapted to cluster, on the display for selection, characters within the first set of characters, so that characters that are statistically more likely to be selected in successive order appear closer to each other than characters that are statistically less likely to be selected in successive order (col. 4, lines 29-38; col. 2, lines 50-63; fig. 7A- 7C; col. 9, lines 29-40).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Dostie by the device is adapted to cluster, on the display for selection, characters within the first set of characters, so that characters that are statistically more likely to be selected in successive order appear closer to each other than characters that are statistically less likely to be selected in successive order as taught by Pu in order to provide an improved user interface used to input data without the use of a standard keyboard were the data that is entered is selected from a predefined list or group determining by the relative frequency of each valid selection in the predefined list and presenting those valid selections with the highest frequency in a position that minimizes the number keystrokes required for data entry (Pu: col. 2, lines 46-57).

Application/Control Number: 10/749,813 Page 11

Art Unit: 2179

(Note:) It is noted that any citation to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. In re Heck, 699 F.2d 1331, 1332-33, 216 USPQ 1038, 1039 (Fed. Cir. 1983) (quoting In re Lemelson, 397 F.2d 1006,1009, 158 USPQ 275, 277 (CCPA 1968)).

Response to Arguments

Applicant's arguments with respect to claims 1-29 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Inquires

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas Augustine whose telephone number is 571-270-1056 and fax is 571-270-2056. The examiner can normally be reached on Monday - Friday: 9:30am- 5:00pm Eastern.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 571-272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/749,813 Page 12

Art Unit: 2179

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nicholas Augustine/ Examiner Art Unit 2179 October 8, 2009

/Weilun Lo/ Supervisory Patent Examiner, Art Unit 2179